



The Power of Opportunity™

PO Energy Green Path Initiative

Prepared for California Energy Commission Workshop on
Transmission Constraints to Geothermal Resource

Development

April 11, 2005

Presented by

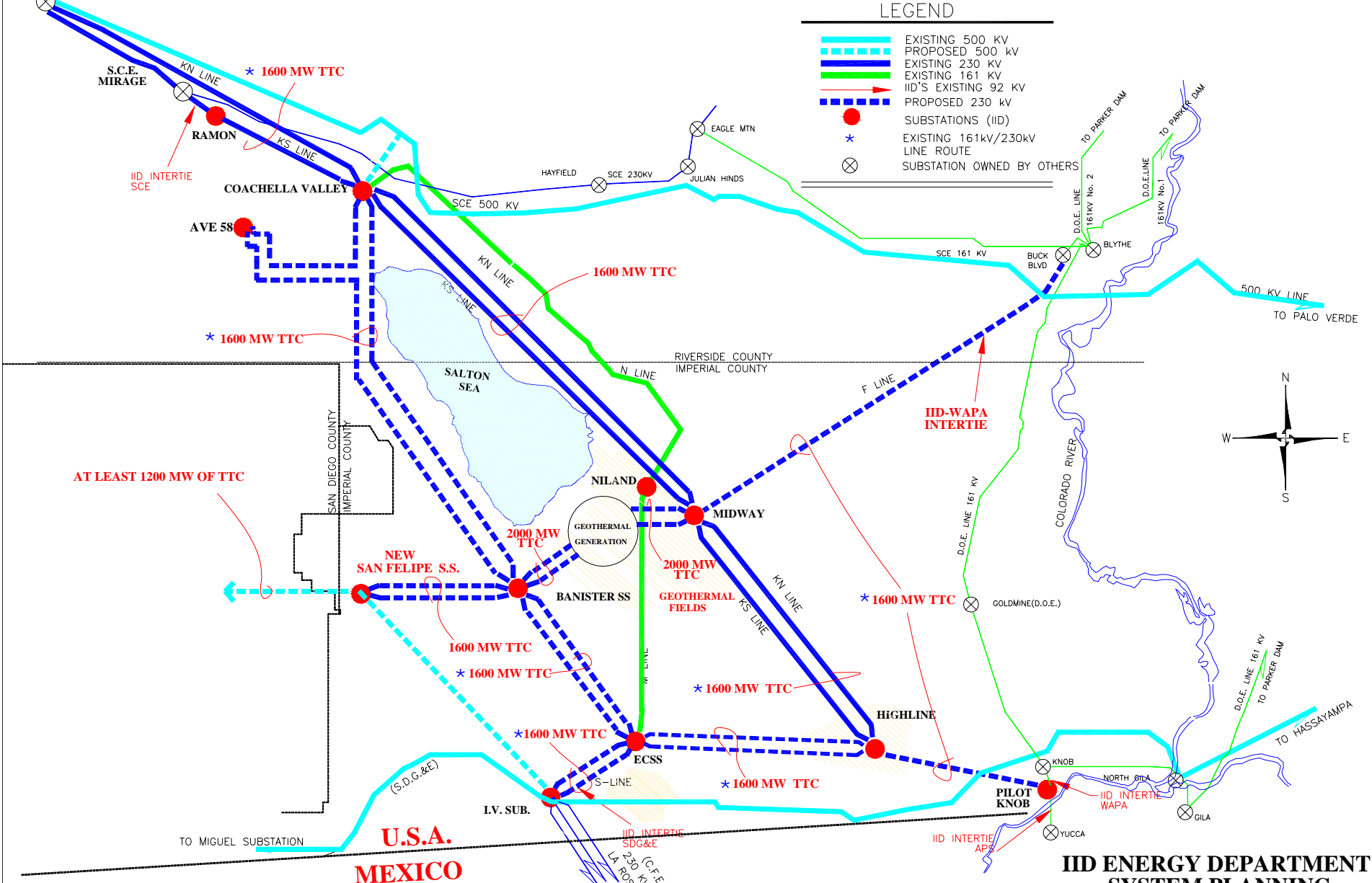
Frank M. Barbera



IID Energy's Green Path

- A transmission corridor to access geothermal energy resources in the southern portion of the Western Interconnect

**S.C.E.
DEVERS**



**IID ENERGY DEPARTMENT
SYSTEM PLANNING
NOVEMBER 2004**



V Green Path Advantages

- Interconnection to three major Control Areas
 - CAISO
 - San Diego Gas and Electric
 - Southern California Edison
 - Western Area Power Administration
 - Arizona Public Service Company



V Green Path Advantages

- Existing Collector Ring around geothermal resources that provides:
 - Path and Right Of Way for future expansion
 - Redundant path provides additional reliability to points of interconnection



What Needs to be Done

- Encourage collaborative efforts between load serving entities, transmission owners, and renewable energy suppliers to achieve the maximum economies of scale.
- Implement joint transmission projects not just for renewable supplies, but for other energy needs – present and future.



What Needs to be Done

- Assure that the regulatory environment implements joint transmission projects that allow the different models (physical and financial) within the Western Interconnect to coexist.
 - Tariffs and Regulation
 - Price and Operational Certainty



IV Green Path Imperatives

- Without the Green Path, development of Geothermal resources will be impaired
 - Upgrades and interconnections with other Control Areas will be incremental
 - Economies of scale will disappear



IID Energy's Position

- IID is willing to step up to the plate – be the lead agency to coordinate various efforts within the Western Interconnect to promote the Green Energy Path



IID will Promote:

- Geothermal resource integration with other resources in the multitude of planning organizations
 - STEP, SWAT, CRT, CEERT, IVSG, etc
- Joint transmission projects between various agencies or entities
 - Control Areas, IOUs, Public Utilities, Independent Power Producers, Load Serving Entities, Independent Transmission Providers



IID will Promote:

- Collaborative efforts to identify and mutually resolve obstacles to Green Path implementation, and...



IID will:

- Solicit unified support from various entities on common problem resolution
 - CEC, CANDO, CAISO,
 - WGA
 - CDEAC, Geothermal and Transmission Work Groups
 - CEERT
 - WestConnect
 - wesTTrans Transmission Providers
 - PPIW
 - FERC, PUCs, and other Governing Bodies